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05 June 1996

MEMORANDUM

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To:

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Subj: NSA MEMPHIS BRAC CLEANUP TEAM (BCT) MEETING, 28-30 MAY 96

Encl: (1) Minutes from 28-30 May 1996 BCT Meeting
(2) Revised BCT Charter

1. Enclosure (1) is forwarded for your review and information. As a reminder, the next BCT is scheduled for 24-26 June.
2. As discussed at the May meeting, the BCT Charter has been revised and is forwarded as enclosure (2). Please plan on formally adopting and signing this at the next BCT meeting. If you have any additional comments on the Charter, please forward them to me prior to the June meeting.
3. Follow-up assignments are summarized below:

EnSafe (Lawson Anderson):

- Pending the availability of data from the additional apron area sampling:
 - (1) Revise TEM/geological/contamination maps of the area at Hangar N-126 and the surrounding apron to include all the lower fluvial aquifer wells.
 - (2) Construct 3-D model of the area at Hangar N-126 and the surrounding apron.

- (3) Perform 3D geostatistics on data from upper and lower fluvial to determine if there is a correlation (coordinate with Mark Taylor on securing the services of Dr. Rouhani if EnSafe is unable to conduct in-house).
- (4) Overlay old wastewater sewer lines with TEM map to determine any correlation with PCE/TCE hits.
- Coordinate with Mark Taylor on securing the services of Dr. Rouhani to conduct a geostatistical analysis of the BRAC data (SWMU 7/apron area, as well as other areas).
- In accordance with the Deliverable Schedule, provide the following documents before the June BCT meeting:
 - SWMU 1
 - SWMU 5 (to be provided to BCT by 7 June)
 - SWMU 60
 - Voluntary Corrective Action Work Plans for SWMUs 3,7,18, & Gas Pits (to be provided to BCT by 31 May)
 - Assembly D CSI
 - CAMP
- Recalculate background levels based on 13 sites.
- Complete the "Keys to Opening The Door To BCT Success" questionnaire.
- Update color map indicating environmental condition of property (BRAC map) for July RAB meeting.
- Update environmental timetable for July RAB.
- Coordinate with Rob Williamson to produce "before & after" photographs of SWMUs 66 & 67 for the July RAB meeting.
- Incorporate FDA limits in the fish tissue human health risk assessment for the south side lagoons.

EPA Region IV (Brian Donaldson):

- Review deliverables to be provided in June:
 - SWMU 3
 - SWMU 1
 - SWMU 5
 - SWMU 60
 - Voluntary Corrective Action Work Plans for SWMUs 3,7,18, & Gas Pits
 - Assembly D CSI
 - CAMP
- Arrange for Otis Johnson to attend the June BCT meeting to discuss the HSWA Permit renewal.
- Complete the "Keys to Opening The Door To BCT Success" questionnaire.

NSA Memphis - Environmental (Tonya Barker/Rob Williamson):

- Issue service call with DynCorps to have tank pit at SWMU 19 (Navy Exchange Gas Station) capped with asphalt.
- Complete the disposal of IDW from Assembly A investigation.
- Remove and dispose of soil pile at SWMU 1 using DynCorps.
- Coordinate with TDEC on radiation survey (field survey scheduled for June/July).
- Arrange for the cleanup of SWMU 66 by DynCorps, including the recycling of CFC from disposed refrigerators.
- Monitor the proposed demolition for Building N-121, and notify the BCT of the schedule once it has been established.
- Complete the "Keys to Opening The Door To BCT Success" questionnaire.
- Assemble "before & after" photographs of SWMUs 66 and 67 for presentation at the July RAB meeting.
- Coordinate the cleaning of the storm drain near SWMU 57. Notify Jim Morrison in advance so that he can attend the field work. Dye trace the line before the cleaning. Photograph the drain inlet before and after the cleaning.
- For tank removal work under the slab at building S-74, ensure PCBs and VOCs are included in the soil testing analyses.

SOUTHDIV (David Porter):

- Coordinate with the Base Reuse Committee on the placement of the roadway at SWMU 60. Reconfirm the limitation of reuse of landfill areas.
- Coordinate with the Base Reuse Committee on the possibility of near term (summer 96) innovative property transfer of the airfield and apron/completion of a FOSL for the remainder of the airfield area.
- Revise the Charter based on comments provided at the May BCT meeting.
- Draft a letter (to be sent by RAB co-chairs) regarding the low attendance of board members at RAB meetings, and the possibility of changing the meetings to a quarterly schedule.
- Coordinate with Freda Ellerbook and David Watt on contacting RAB board members by telephone immediately prior to the July RAB meeting.

- Arrange for Darrell Molzan to attend the July RAB meeting to provide a presentation on NEPA requirements, and the status of the Environmental Impact Statement for NSA Memphis.

SOUTHDIR (Mark Taylor):

- Follow up with PWC Jacksonville on securing SCAPS results for SWMU 5.
- Complete the "Keys to Opening The Door To BCT Success" questionnaire.

TDEC (Jim Morrison):

- Organize radiation survey by TDEC personnel for June/July.
- Review deliverables to be provided in June:
 - SWMU 1
 - SWMU 5
 - SWMU 60
 - Voluntary Corrective Action Work Plans for SWMUs 3,7,18, & Gas Pits
 - Assembly D CSI
 - CAMP
- Complete the "Keys to Opening The Door To BCT Success" questionnaire.

USGS (Jack Carmichael):

- Arrange to have Rick Miller with the Kansas Geological Survey brief the BCT at the June meeting on the findings to date, and the feasibility of continuing the seismic investigation.
- Arrange a course on the use of modeling for BCT meeting in June, to be conducted by James Robinson, Tuesday, 25 June). Coordinate with Rob Williamson at least two weeks prior on arranging training space and any special requirements.
- Complete the "Keys to Opening The Door To BCT Success" questionnaire.

4. Please call/e-mail if you have comments and/or questions: (803) 820-5610, DSN 583, e-mail: dlporter@efdsouth.navfac.navy.mil.



NSA MEMPHIS BCT MEETING MINUTES
28-30 MAY 1996

The NSA Memphis BRAC Cleanup Team convened at 1:00 pm on Tuesday 28 May in the CO's conference room, Building S-1. The following people were in attendance:

Lawson Anderson, EnSafe (Memphis)
Jack Carmichael, USGS (Nashville)
Danny Chumney, NSA Memphis
LCDR Darrell Creasy, NSA Memphis
Brian Donaldson, EPA Region IV
Jordan English, TDEC (Memphis)
Jim Heide, NSA Memphis
Keith Johns, EnSafe (Raleigh)
Jim Kingsbury, USGS (Memphis)

Don Litton, NSA Memphis
Jim Morrison, TDEC (Memphis)
David Porter, SOUTHDIV
Robert Smith, EnSafe (Memphis)
LT Chuck Starky, NSA Memphis
Mark Taylor, SOUTHDIV
Rob Williamson, NSA Memphis
James Worthy, SOUTHDIV

The BCT provided CDR Work (Executive Officer) with a brief on the material to be presented to the RAB at Tuesday night's meeting. At 1:45 pm, the BCT adjourned to reassemble in the Environmental Conference room in Building S-241. The following people were present:

Lawson Anderson
Jack Carmichael
Brian Donaldson
Jordan English
Jim Morrison

David Porter
Robert Smith
Mark Taylor
Rob Williamson
James Worthy

The BCT reviewed the agenda. Lawson Anderson requested that a discussion of the fish tissue sampling be postponed until Thursday.

The first item of discussion was a possible new Gray Area near SWMU 57. The area includes a storm drain which was noted as an area of possible concern by Wayne Mathis (EPA Region IV) and Rodney Lumpkins (TDEC) during an EPA Multi-Media Inspection in early May. Lawson Anderson noted that the south side drainage ditches (SWMU 38) have been sampled, and this drain may be covered under the sampling. The team decided to make a site visit later in the afternoon.

Rob Williamson requested a discussion of SWMU 67, and the possibility of a follow-up soil sample. He noted that 6 to 7 one-gallon cans of paint were located in the pile of rubble at the site, and that one of the cans was spilled on the ground. This was cleaned up during the site cleanup, however. The BCT by consensus decided that testing at the site was not necessary.

David Porter discussed the revised charter. Jack Carmichael made a number of editorial changes to the charter, which were adopted by the team. David Porter will make the changes, and the BCT will sign at the next meeting.

David Porter distributed a questionnaire entitled "Keys to Opening the Door to BCT Success", which was developed by the Office of the Secretary of Defense. David Porter requested that the team complete the form and return by the end of the meeting if possible, or by the next meeting.

Lawson Anderson discussed the Assembly A third sampling event. Of note, the well with the previous highest level of TCE (1100 ppb) went down to 160 ppb.

The team reviewed the results from the sampling at SWMU 10. Jordan English noted that long term plans for the landfills need to be considered (i.e., deed restrictions). The city needs to be made aware of possible limitations on the reuse of the landfill areas. David Porter will reconfirm the limitations with the reuse committee.

Tanks were confirmed at SWMU 40. These will be removed under UST regulations by the Army Corps of Engineers.

Rob Williamson noted that the wet conditions at SWMU 10 may be creating a wetlands. The activity has requested a biological survey of the base. Tim Merritt with the US Fish and Wildlife Service will be conducting the survey.

The BCT discussed follow-up items from the April BCT meeting:

EnSafe (Lawson Anderson):

- Pending the availability of data from the additional apron area sampling:
 - (1) Develop TEM/geological information map of the area at Hangar N-126 and the surrounding apron. TEM/geological maps of PCE, TCE, and carbon tetrachloride will be available for the BCT's review on Thursday
 - (2) Construct 3-D model of the area at Hangar N-126 and the surrounding apron. 3-D model will be base-wide. Completion will take at least 2 months.
 - (3) Perform 3D geostatistics on data from upper and lower fluvial to determine if there is a correlation. Still awaiting data (will be at least one month before it is available). Also, modeler for EnSafe has left the company, therefore EnSafe may sub it to New Fields.
 - (4) Overlay old wastewater sewer lines with TEM map to determine any correlation with PCE/TCE hits. To be completed. Lawson Anderson will coordinate with Larry Hughes.
- In accordance with the Deliverable Schedule, provide the following documents before the May BCT meeting:
 - SWMU 1 17 May
Awaiting USGS comments - per Jack Carmichael, these will be available by the end of the week.
 - SWMU 5 10 May
EnSafe will provide to the BCT by the end of the week.
 - SWMU 60 29 May
EnSafe will deliver to the Navy and USGS by the end of next week.
 - Voluntary Corrective Action Work Plans for SWMUs 3,7,18, & Gas Pits 29 May
 - Voluntary Corrective Action Work Plans will be available by the end of the week.
 - Assembly D CSI 17 May
Awaiting Navy comments. Should be out to the BCT within a week or two.
 - CAMP 15 May
Lawson Anderson hopes to have completed next week.

- Prepare RAB presentation on SWMU 66 findings.
Has been completed.
- Prepare RAB presentation on preliminary data collected at tanks 336/337.
Has been completed.
- Recalculate background levels based on 13 sites.
Awaiting new data before recalculation.
- Conduct additional testing of soil piles at SWMU 8.
Unvalidated data should be available on 3 June.
- Review surface soil data at SWMU 14, and provide Technical Memo on asphalt/sidewalk removal.
Memorandum has been completed.

EPA Region IV (Brian Donaldson):

- Review deliverables to be provided in May:
SWMU 3
SWMU 1
SWMU 5
SWMU 60
Voluntary Corrective Action Work Plans for SWMUs 3,7,18, & Gas Pits
Assembly D CSI
CAMP
Awaiting deliverables.
Assembly F work plan
Comments to be addressed on Thursday morning.

Brian Donaldson requested that all documents sent to him include "6th Floor Tower" in the address. He stated that he had met with Otis Johnson regarding the HSWA Permit renewal, and a public notice should take place in August. Brian suggested that Otis Johnson attend the next BCT meeting to discuss the permit renewal.

NSA Memphis - Environmental (Tonya Barker/Rob Williamson):

- Issue service call with DynCorps to have tank pit at SWMU 19 (Navy Exchange Gas Station) capped with asphalt.
To be completed.
- Complete the disposal of IDW from Assembly A investigation.
On going. Per Rob Williamson, NSA Memphis has had contractual problems getting DynCorps to complete the IDW disposal.
- Remove and dispose of soil pile at SWMU 1 using DynCorps.
A Delivery Order has been issued to DynCorps - estimated completion date of July.
- Coordinate with TDEC on radiation survey (survey scheduled for May).
Coordination ongoing, and preliminary survey is being finalized. Field survey will be delayed due to cutbacks in the state program.
- Arrange for the disposal of remaining material at SWMU 67, pending analytical results from EnSafe.
Has been completed.
- Arrange for the cleanup of SWMU 66 by DynCorps, including the recycling of CFC from disposed refrigerators.
A Delivery Order has been issued to DynCorps - estimated earliest completion date of the cleanup is the end of July.
- Determine demolition schedule for Building N-121.
Demolition is tentatively scheduled for the Fall of this year.
- Investigate use of former buildings near background well No. 5 and the fire mats.
The building near background well No. 5 appears to have been a guard shack. The building near the fire mats appears to have been a storehouse.

SOUTHDIV (David Porter):

- Coordinate with the Base Reuse Committee on the placement of the roadway at SWMU 60.
Per David Porter, he has not received information from reuse committee regarding placement of the roadway. Reuse committee was to coordinate with TN State Highway Department. David Porter will coordinate and reconfirm limitation of reuse of the landfill areas.
- Coordinate with the Base Reuse Committee on the possibility of near term (summer 96) innovative property transfer of the airfield and apron.
Reuse Committee/Airport Authority has convinced the Assistant Secretary of the Navy (Cassady) to allow a 25 year lease (with caveats for transfer once environmental issues are addressed). The lease is awaiting signature from Cassady. Community may wish to pursue an innovative transfer as soon as possible, due to termination clauses in the pending lease.
- Develop team meeting assignments.
Has been completed.

SOUTHDIV (Mark Taylor):

- Coordinate HSWA Permit renewal application (coordinate with Mr. Otis Johnson at EPA Region IV and James Worthy/SOUTHDIV), including the possible revision of the application to a "letter format."
Per Brian Donaldson, Otis Johnson hopes to have a public notice for the permit renewal in August. Brian Donaldson will request Otis Johnson attend the June BCT meeting.
- Provide Brian Donaldson with a copy of the HSWA Permit renewal application.
Has been completed.
- Arrange for a Data Quality Objectives course by NEPTUNE for the BCT meeting in May.
Has been completed.
- Coordinate with Jim Morrison to incorporate NAVSEA RASO comments into the TDEC radiation survey.
Has been coordinated with Jim Morrison and Rob Williamson.
- Prepare RAB presentation on SCAPS results.
Postponed until July RAB meeting - PWC Jacksonville has not yet provided a report on the results.

TDEC (Jim Morrison):

- Organize radiation survey by TDEC personnel for May.
Ongoing coordination - field survey will be delayed until June/July due to shortage in state personnel. Also, awaiting final results from survey being conducted by Rob Williamson.
- Review deliverables to be provided in May:
SWMU 3
Has been reviewed and approved.
SWMU 1
SWMU 5
SWMU 60
Voluntary Corrective Action Work Plans for SWMUs 3,7,18, & Gas Pits
Assembly D CSI
CAMP
Awaiting deliverables from EnSafe.
Assembly F work plan
Comments will be discussed on Thursday morning.

USGS (Jack Carmichael):

- Continue to coordinate High Frequency Seismic work with the Kansas Geological Survey. Phase I was completed 14/15 May by Rick Miller from the Kansas Geological Survey. Two test lines were completed. One (at the south end of the runway) looks promising. The other, near SWMU 1, does not look as promising. Fill possibly interfered with results. Rick Miller would like to attend the BCT meeting in June to discuss the project. Does not think seismic can be done in areas with a lot of culture (i.e., apron and runways).
- Arrange for course on the use of modeling for BCT meeting in June. Jack Carmichael has arranged for James Robinson with the USGS to conduct a one-day course on groundwater modeling on Tuesday, 25 June. Per an activity request, training course will be held at NSA Memphis, rather than EnSafe's office. Rob Williamson will arrange for a training space.
- Prepare RAB presentation on biotransformation and preliminary data collected. Has been completed.

At 4:30 pm, Jim Morrison and Jordan English departed, and the remainder of the team conducted a site visit to the storm drain near SWMU 57. Jim Heide and Danny Chumney also accompanied the group. Jim Heide probed the drain inlet and noted that it was filled with what appeared to be white paint residue.

The meeting was adjourned at approximately 5:00 pm

Note: A Restoration Advisory Board (RAB) meeting was conducted at Baker Community Center at 6:30 pm. Minutes of this meeting will be forwarded separately.

The BCT reconvened on Wednesday morning at EnSafe's office at 8:00 am for Data Quality Objective (DQO) training by Dean Neptune and Company. The following BCT personnel attended the training:

Lawson Anderson
Jack Carmichael
Brian Donaldson
Jim Morrison

David Porter
Robert Smith
Mark Taylor
Rob Williamson

The training adjourned at 4:30 pm.

The BCT reconvened on Thursday morning at EnSafe's office at 8:00am. The following people were present:

Lawson Anderson
Jack Carmichael
Brian Donaldson
Jordan English
Jim Morrison

David Porter
Robert Smith
Mark Taylor
Rob Williamson

The team discussed follow-up issues from Tuesday evening's RAB meeting. Jordan English noted that the lack of board members at the meeting (only two community members of the board were present) was a problem, and suggested that a letter from the co-chairs be sent to the board on the issue. David Porter will draft such a letter, which will address poor attendance and possibly moving to a quarterly meeting (suggested by CDR Work at the meeting). David Porter suggested that in addition to the letter from the co-chairs, Freda Ellerbrook and Dr. Watt could be requested to call other board members just prior to the next meeting as a reminder that a meeting is to take place.

The team discussed agenda items for the next RAB. It was decided to include the following items:

- SOUTHDIV presentation (Darrell Molzan) on the status of the Environmental Impact Statement
- Assembly E findings
- Before and after pictures of SWMUs 66 and 67 (Rob Williamson will handle)
- Overall timeline/schedule
- Updated color map

Rob Williamson requested that the BCT provide recommendations for the storm drain near SWMU 57. The team decided that the drain should be cleaned. Pictures should be taken before the cleaning. Jim Morrison requested that he be notified in advance so that he can attend the field work. The drain line will be dye traced before the cleaning to determine the location of the outfall. The BCT will make another site visit during the next BCT meeting, either 24 or 26 June (Jim Heide will coordinate, as Rob Williamson will be on active duty).

Rob Williamson also requested a BCT recommendation regarding the removal of a underground tank near S-74. During the tank removal, it was discovered that the tank had leaked and that contamination extended under the slab of the former building at S-74, which is a SWMU due to past storage of PCB transformers. Randy Wilson raised that question: Can the plume be pursued under the slab, and can the slab be removed. The BCT decided the slab could be removed as part of the tank removal, and that testing of the soil should include PCBs and VOCs. Work can proceed under the UST program.

The BCT reviewed a series of maps developed by Larry Hughes from testing, TEM, and geological data.

Brian Mulhand and Fred Swain briefed the team on the preliminary findings of the fish tissue sampling from the south side sewage lagoons. Although PCBs were not detected in the sediment in the lagoons, there appears to be a degree of bioaccumulation of PCB in the fish tissue collected. The BCT decided to use golf course pond sediment samples results (from DERA gray area investigation) as an indicator for fish in the Navy Lakes. TOC will also be collected for modeling.

The team discussed review comments on the Assembly F Work Plan provided by Jim Morrison and Brian Donaldson (David Porter and Mark Taylor departed for the airport at 11:00 am). Lawson Anderson will incorporate the comments and issue a final document.

The meeting was adjourned at 12:00 noon.